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ANT2m ATGACAGATGCGCTGTGTCTTCGCCAAGGACTTCTGGCAGGTGGAGTGGCCGAGCCATCTCCAAGACGGCGGTAGC 80  
ANT3m ATGACGAGACAGGCATCTCTTCGCCAAGGACTTCTGGCCGAGGCATCGCCGCGCCATCTCCAAGACGGCGGTGC 80

ANT1m CCCCATCGAGAGGGTCAAACTGCTGCTGCAGGTCCAGCATGCCAGCAACAGATCAGTGTGAGAAAGCAGTACAAAGGGA 160  
ANT2m CCCCATCGAGCGGGTCAAGCTGCTGCTGCAGGTCCAGCATGCCAGCAAGCAGATCACTGCAGATAAGCAATACAAAGGCA 160  
ANT3m TCCGATCGAGCGGGTCAAGCTGCTGCTGCAGGTCCAGCAAGCCAGCAAGCAGATCGCCGCGAAGCAGTACAAAGGCA 160

ANT1m TCATTGATTGTGGTGAGATCCCTAAGGAGCAGGGCTTCTCTCTCTGGAGGGTAACCTGGCCAACGTATCCGT 240  
ANT2m TTTATAGACTGCGTGGTCCGTATTTCCCAAGGAGCAGGAAGTTCTGTCTTCTGGCGGGTAACCTGGCCAAATGTACATAGA 240  
ANT3m TCGTGACTGCAATGTCCGATCCCCAAGGAGCAGGGCGTCTGTCTTCTGGAGGGGAACCTTGCCAACGTCAATCGC 240

ANT1m TACTTCCCCACCAAGCTCTCAACTTCGCCTTCAAGGACAAGTACAAGCAGCTCTTCTTGGGGGTGTGGATCGGCATTA 320  
ANT2m TACTTCCCCACCAAGCTCTCAACTTCGCCTTCAAGGATAAGTACAAGCAGATCTTCTGGGTGGTGTGGACAAGAGAAC 320  
ANT3m TACTTCCCCACTCAAGCTCTCAACTTCGCCTTCAAGGATAAGTACAAGCAGATCTTCTGGGGGGTGGACAAGCAC 320

ANT1m GCAGTTCTGGCGCTACTTTGTGGTAACCTGGGTCCGGTGGGCGGTGGGGCCACCTCCCTTTGCTTTGTATACCCGC 400  
ANT2m GCAGTTTGGGTCTACTTTGCAGGGAATCTGGCATCGGTGGTGCCGAGGGGCCACATCCCTGTGTTTGTGTACCCGC 400  
ANT3m GCAGTTCTGGGTACTTTGGGTAACCTGGGTCCGGTGGGCGGTGGGACCTCCCTTGCTTGTGTACCCGC 400

ANT1m TGGACTTTGTAGGACAGGTGGGTGCTGATGTGGGAGGC---GCGCCAGCGTGAGTTCCATGGTCTGGGCGACTGT 477  
ANT2m TTTGATTTTGCCTTACCCGTCTAGCAGCTGATGTGGGTAAAGGTGGAGGTGAAGGGAATCCGAGGCCTGGTACTGC 480  
ANT3m TGGATTTTGCAGAACCCGCTGGCAGCGGAGGTGGGAAGTCAAGGACAGAGCGGAGTTCCGAGGCCTGGGACTGC 480

Fig. 1A

ANT1m ATCATCAAGATCTTCAAGTCTGATGGCTTGAAGGGGCTTACCAGGGTTTCAACGTCTCTGTCCAAGGCATCATATCTA 557  
ANT2m CTGGTTAAGATCTACAAATCTGATGGATTGAAGGCCTGTACCAAGGCTTTAACGTCTCTGTGCAGGGTATATCATCTA 560  
ANT3m CTGGTTAAGATCAACAAGTCTGACGGCATCCGGGCCTGTACCAGGGCTTCAAGTCTCTGTGCAGGGCATCATCTA 560

ANT1m TAGAGTGCCTACTTCGGATGTCTATGATACTGCCAAGGGATGCTGCTGACCCCAAGAAGTGCACATTTTGTGAGCT 637  
ANT2m CCGAGCGGCCTACTTCGGATCTATGACTGCAAGGGAATGCTTCCGATCCCAAGAACAATCACATCGTATAGCT 640  
ANT3m CCGAGCGGCCTACTTCGGATGTATGATACGCCAAGGGATGCTCCGACCCCAAGAACACGCACATCGTGTGAGCT 640

ANT1m GGATGATTTGCCAGAGTGTGACGGGAGTCCGAGGGCTGTGTCTACCCCTTTGACACTGTTCTGTTAGATGATGATG 717  
ANT2m GGATGATCGCACAGACTGTCACTGCTGTGCCCGGTGACTTCTATCCATTTGACACTGTTCCCGCCGCATGATGATG 720  
ANT3m GGATGATCGCCAGACGTGACGGCGTGGCCGGCTGTGTCTACCCCTTGACACGTGCGCGCGCATGATGATG 720

ANT1m CAGTCCGGCCGAAAGGGCGGATATATGTACAGGGGACAGTTGACTGCTGGAGGAAGATTGCAAAAGACGAAGGAGC 797  
ANT2m CAGTCCGGCGCAAAGGACTGACATCATGTACACAGGCAAGCTTGACTGCTGGGGAAGATTGCTGTTGATGAAGGAGG 800  
ANT3m CAGTCCGGCGCAAAGGAGCTGACATCATGTACAGGGCAAGCTTGACTGTTGGAGGAAGATCTTCAGAGATGAGGGGG 800

ANT1m CAAGGCCTTCTTCAAGGTGCTGGTCCAATGTCTGAGAGGCATGGCGGGTGCTTTTGTATTTGGTGTGTATGATGAGA 877  
ANT2m CAAGGCTTTTCAAGGGTGCATGGTCCAATGTCTGAGAGGCATGGGTGGTGCTTTTGTGCTTGTCTTGTATGATGAAA 880  
ANT3m CAAGGCCTTCTTCAAGGGTGCATGGTCCAAGTCTGCGGGCATGGGGGGCTTTGTGCTGGTCTGTATGACGAGC 880

ANT1m TCAAAAATATGTCTAA 894  
ANT2m TCAAGAAGTACATAA 897  
ANT3m TCAAGAAGTATCTAA 897

*Fig. 1B*

HANT1p MGDAHSFLKDFLAGVAAAVSKTAVAPIERVKLLQVQHASKQISAEKQ 50  
 HANT2p MTDAAVSFAKDFLAGGVAAAIKTAVAPIERVKLLQVQHASKQITADKQ 50  
 HANT3p MTEQALISFAKDFLAGGTAAAISKTAVERVLLQVQHASKQITADKQ 50

HANT1p YKGIIDCVVRIPKEQGLSFWRGNLNVIRYFPTQALNFAFKDKYKQIFL 100  
 HANT2p YKGIIDCVVRIPKEQEVLSFWRGNLNVIRYFPTQALNFAFKDKYKQIFL 100  
 HANT3p YKGIIDCVVRIPKEQVLSFWRGNLNVIRYFPTQALNFAFKDKYKQIFL 100

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 HANT2p GGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGRRA 150  
 HANT3p GGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGRRA 150

HANT1p EREFRGLGDCLVKIYKSDGIRGLYQGFNVSVQGIITYRAAYFGVYDTAKG 199  
 HANT2p EREFRGLGDCLVKIYKSDGIRGLYQGFNVSVQGIITYRAAYFGVYDTAKG 200  
 HANT3p EREFRGLGDCLVKIYKSDGIRGLYQGFNVSVQGIITYRAAYFGVYDTAKG 200

HANT1p MLPDPKNTHIVSWMIAQVTAVAGLISYPFDTVRRRMMQSGRKGADIM 249  
 HANT2p MLPDPKNTHIVSWMIAQVTAVAGLISYPFDTVRRRMMQSGRKGADIM 250  
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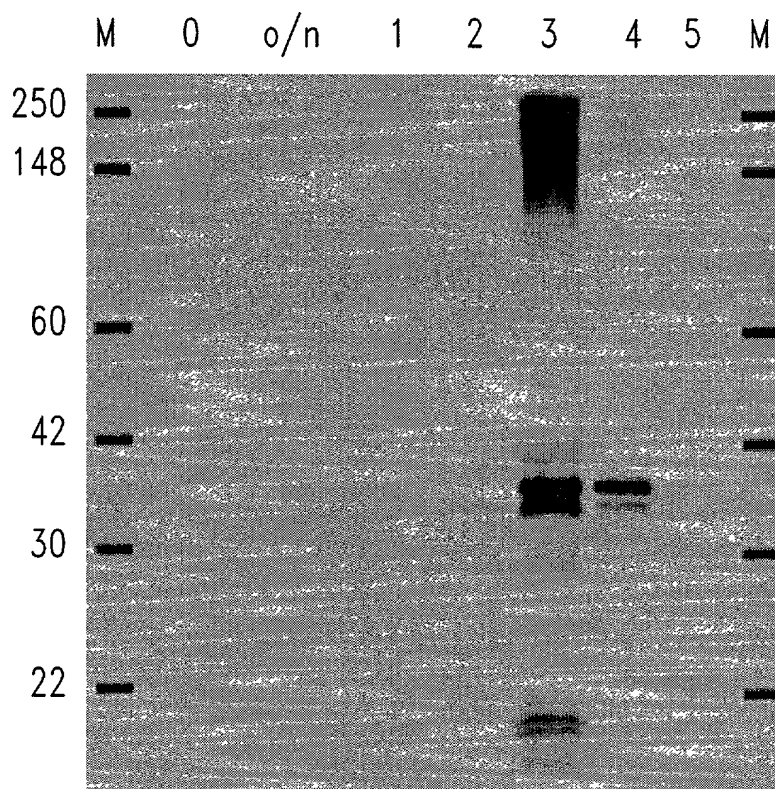
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 HANT3p YTGTVDCWRKIARDEGGKAFKGAWSNVL RGMGGAFVLVLYDEIKKYV 299

Fig. 2

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

Express Mail No. EL 755725003 US

Inventors: Christen M. Anderson et al. Serial No. 09/811,131 Docket No. 660088.420D1

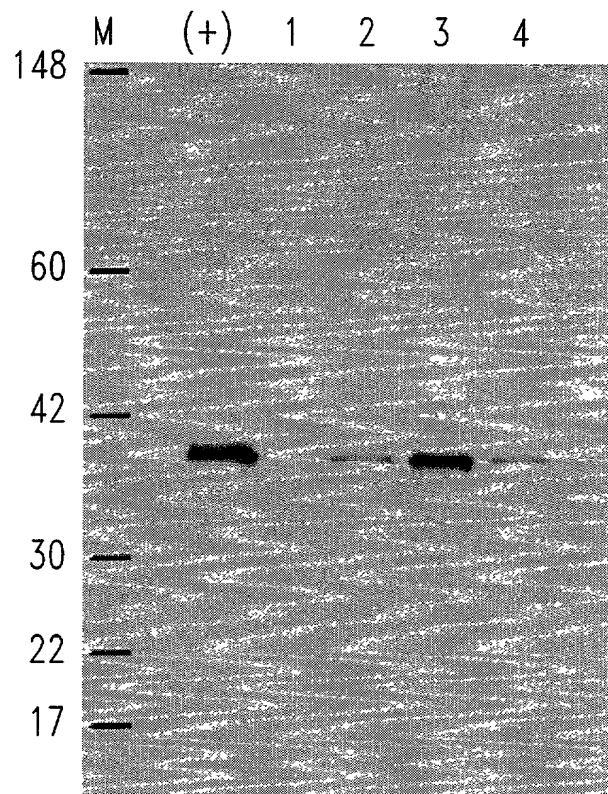


*Fig. 3*

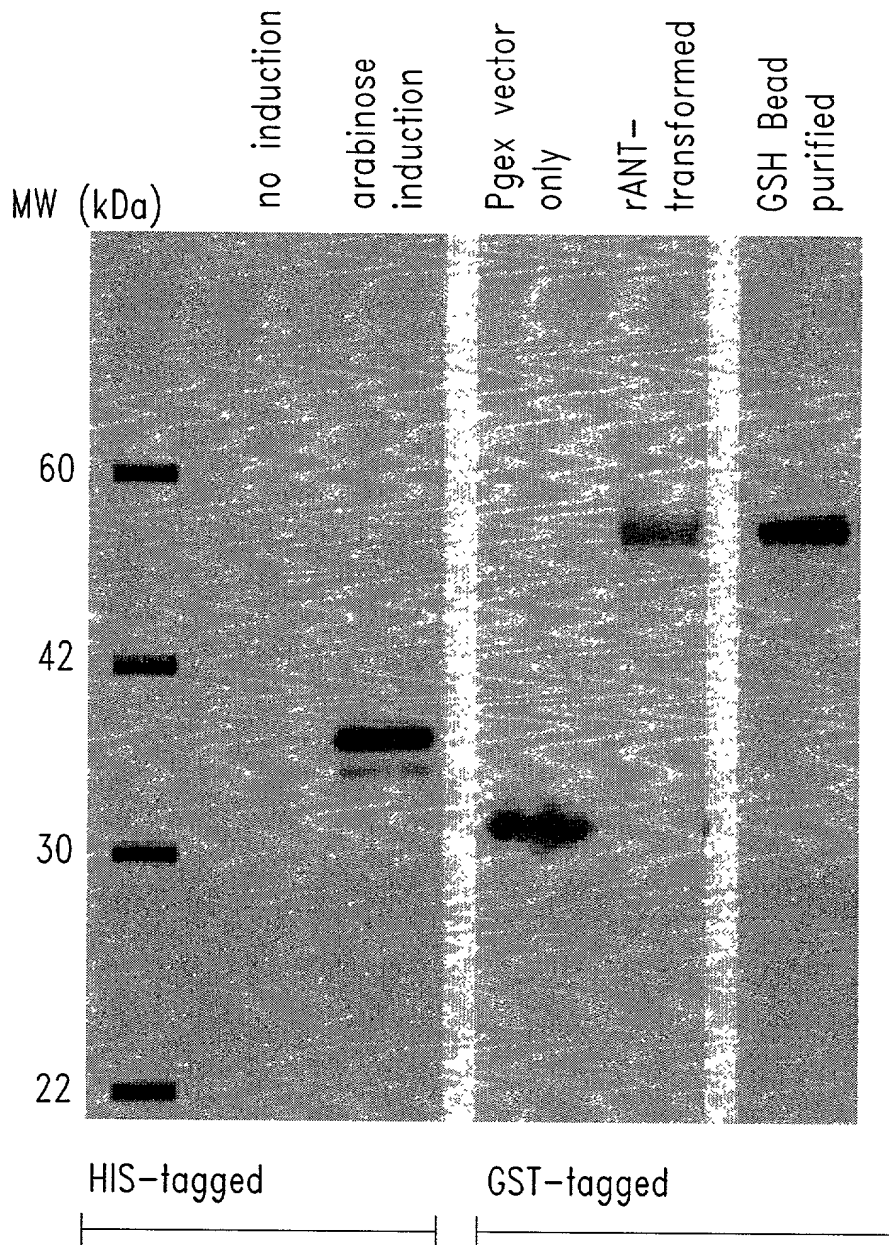
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Express Mail No. EL 755725003 US

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*Fig. 4*

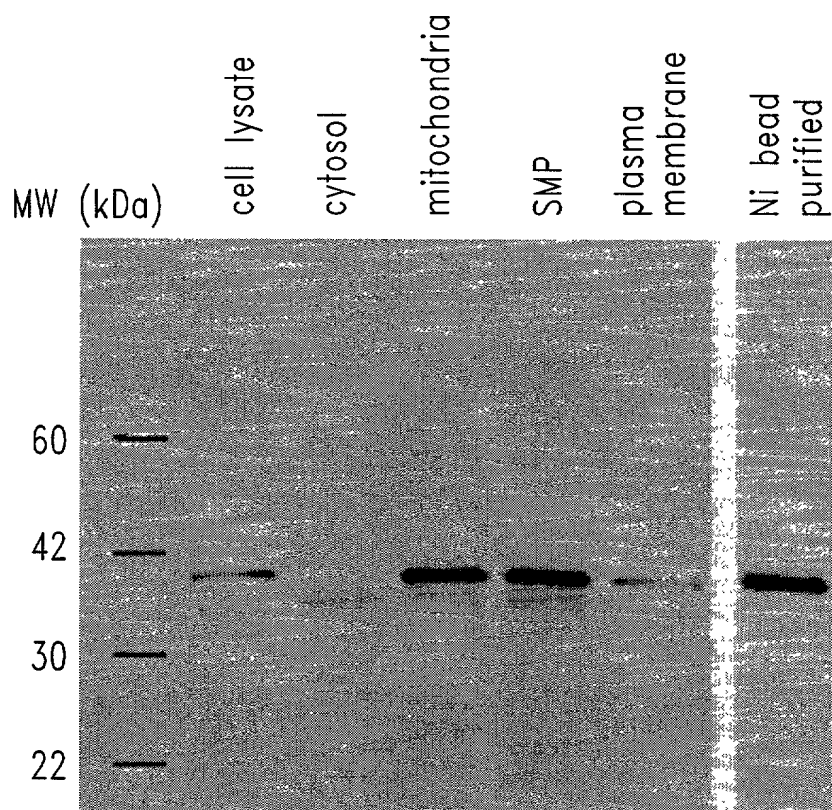


*Fig. 5*

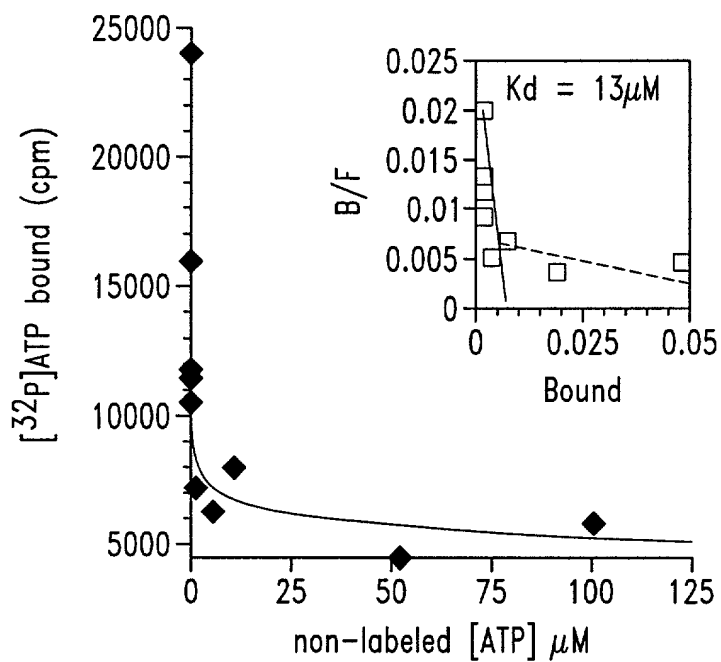
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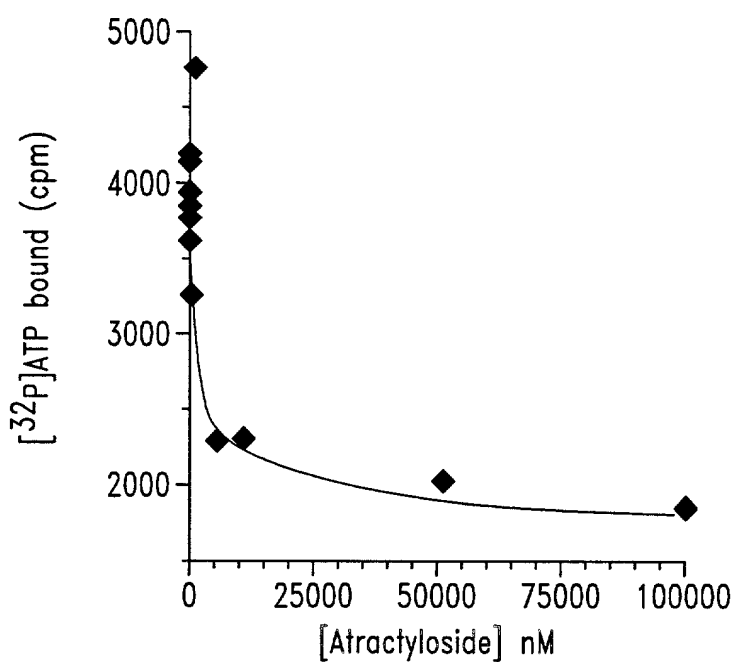
Inventors: Christen M. Anderson et al. Serial No. 09/811,131 Docket No. 660088.420D1



*Fig. 6*

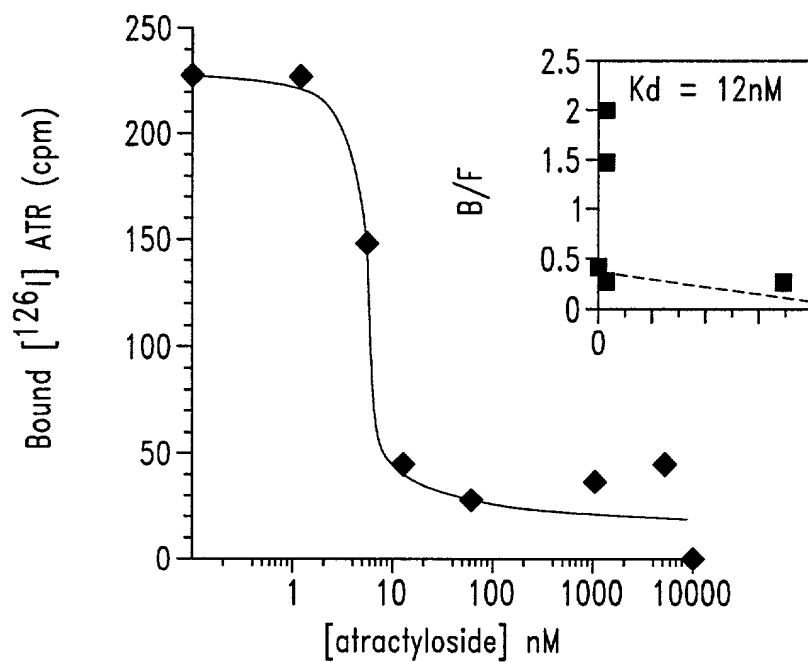


*Fig. 7*

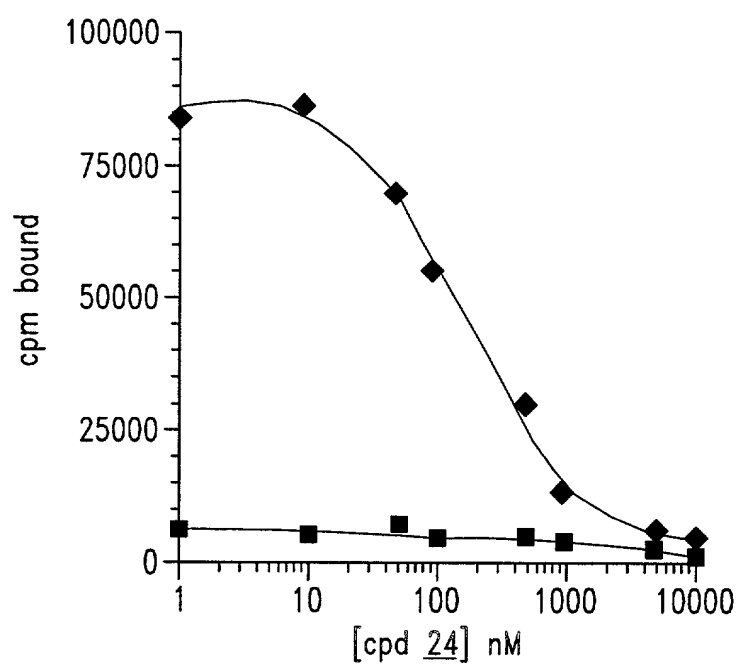


*Fig. 8*





*Fig. 9*



*Fig. 11*

Title: PRODUCTION OF ADENINE NUCLEOTIDE TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS THEREFOR

Express Mail No. EL 755725003 US

Inventors: Christen M. Anderson et al. Serial No. 09/811,131 Docket No. 660088.420D1

TOE250" TETT360

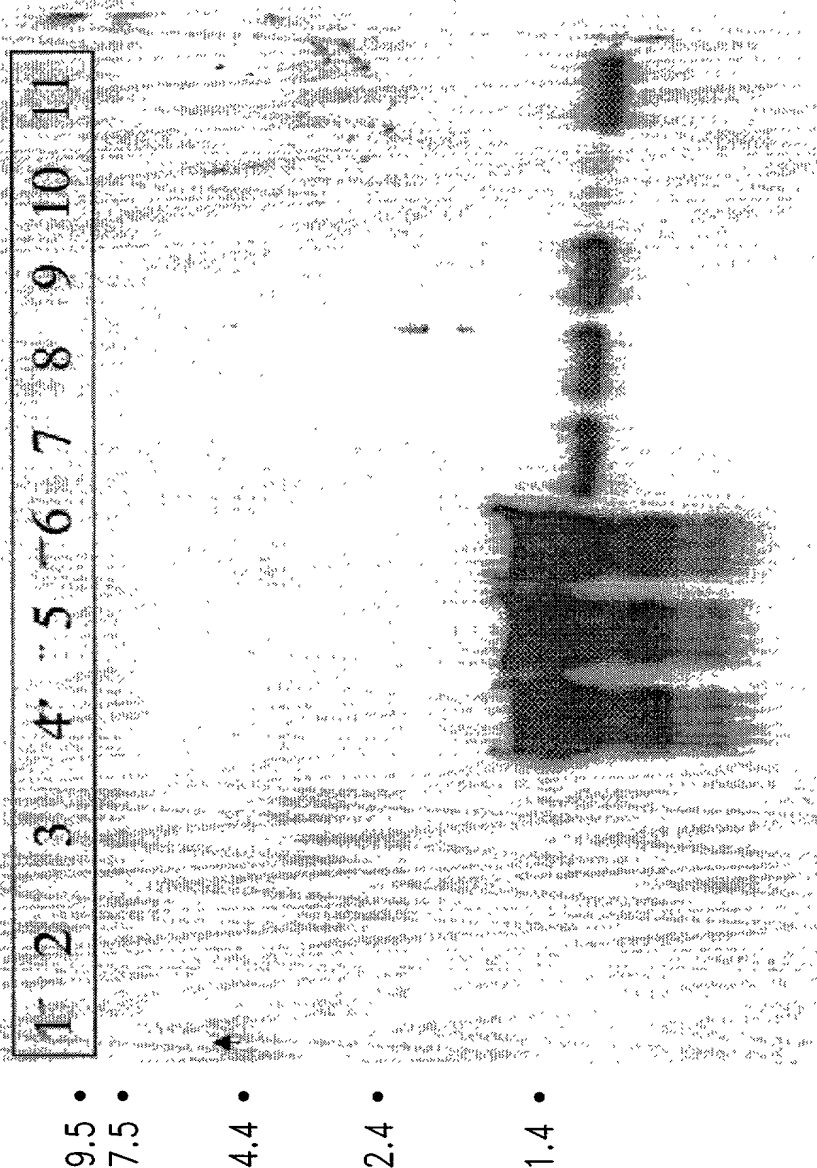
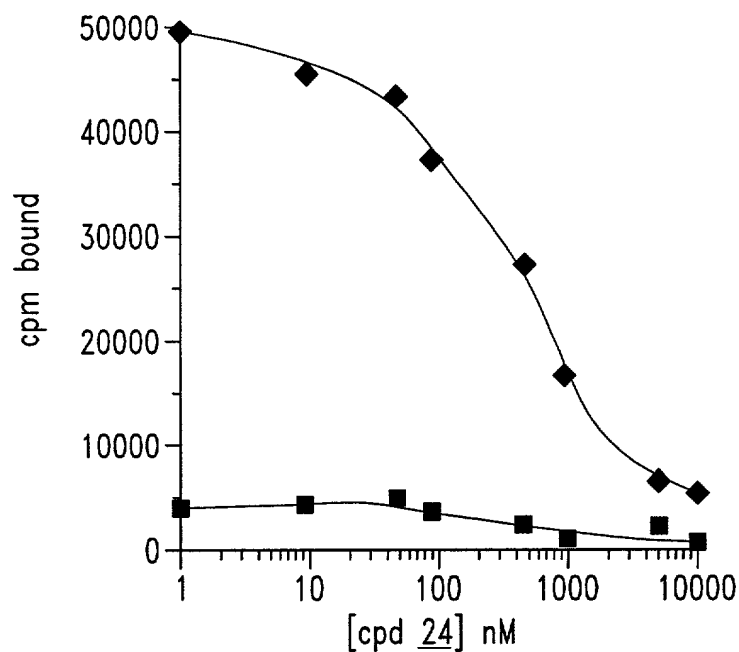
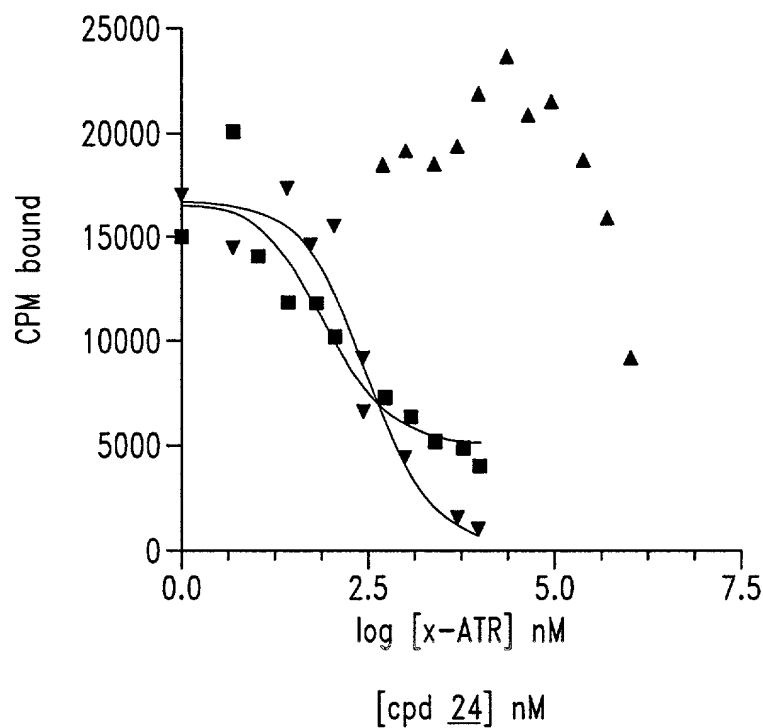


Fig. 10



*Fig. 12*



*Fig. 13*

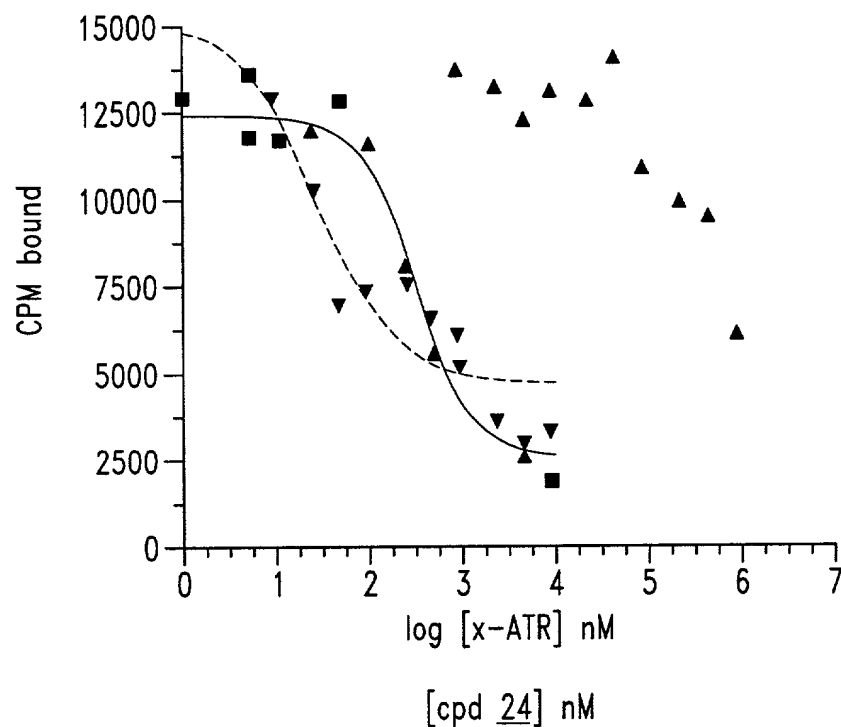


Fig. 14

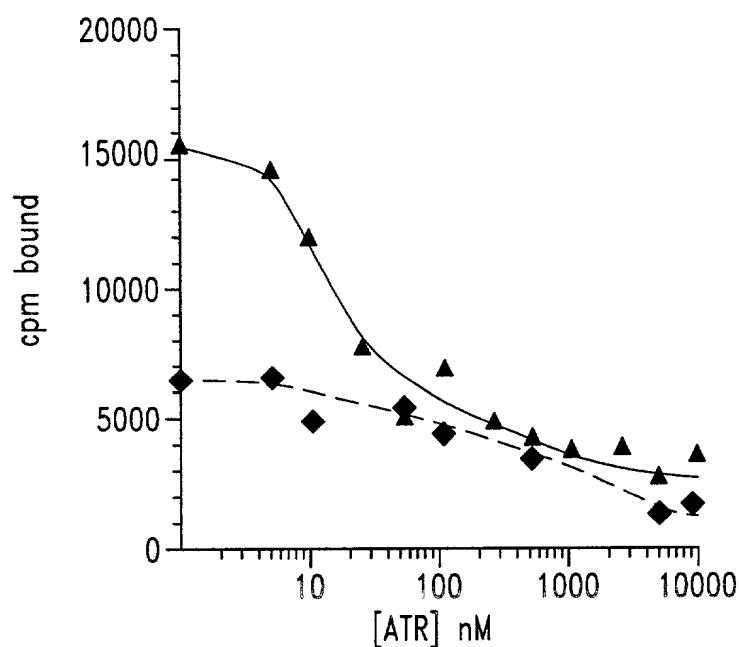
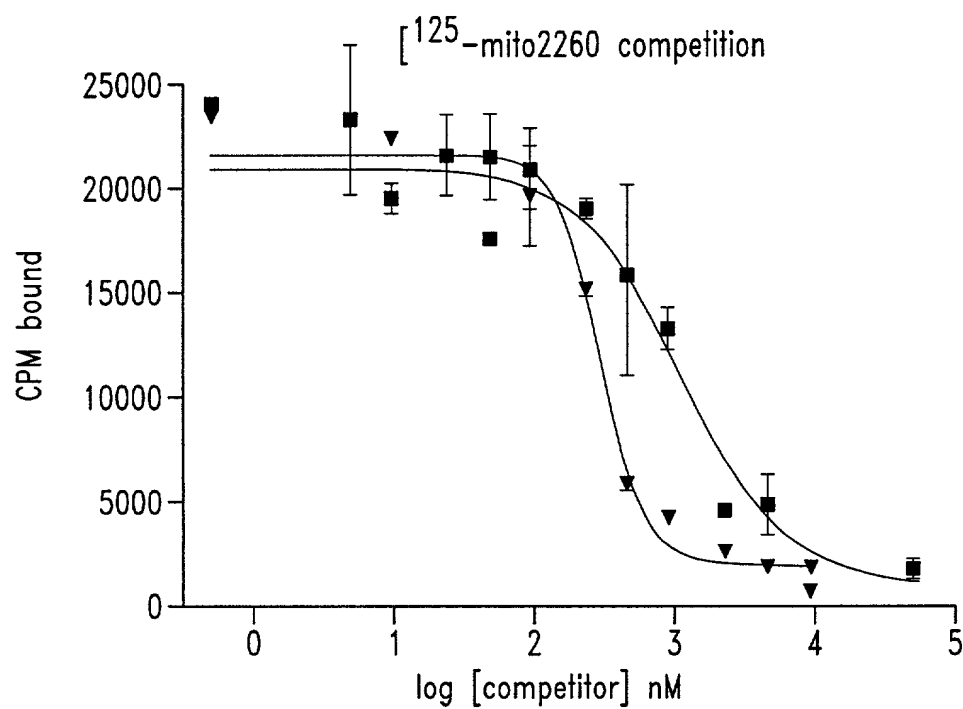
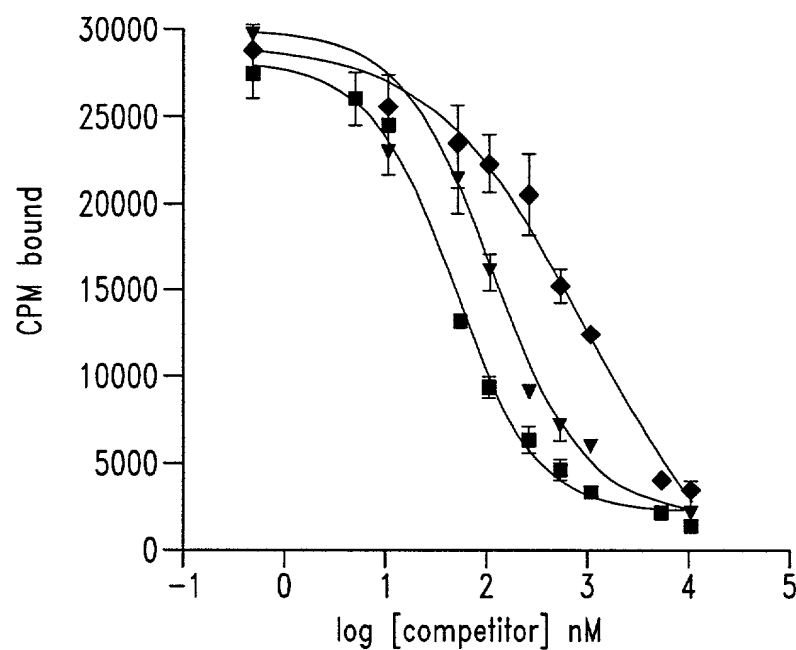


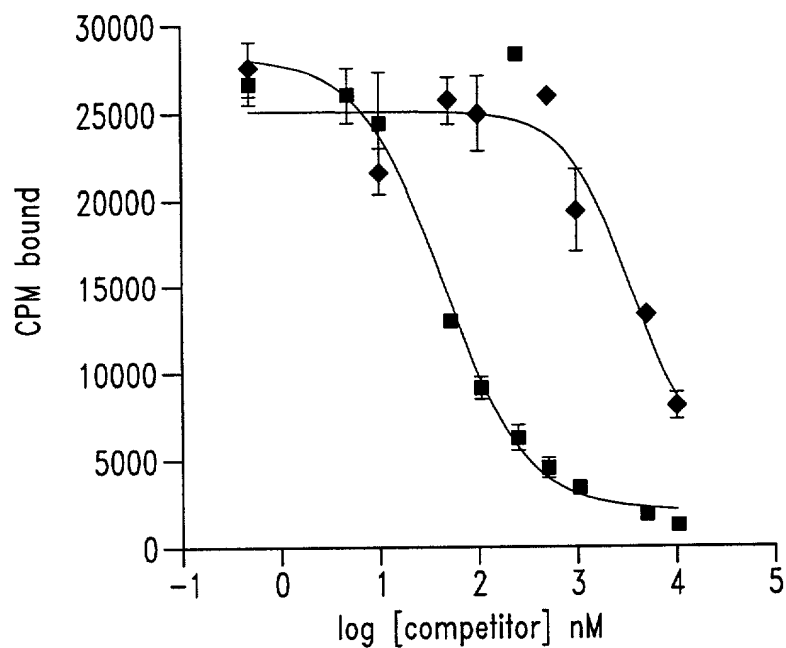
Fig. 15



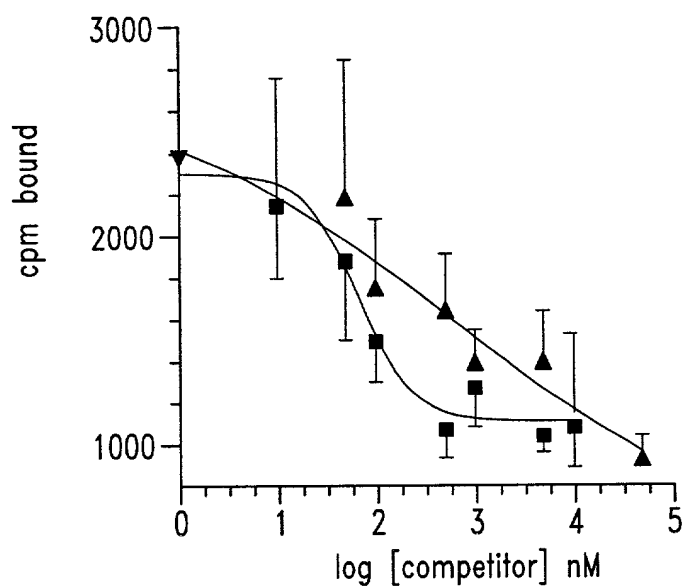
*Fig. 16*



*Fig. 17*



*Fig. 18*



*Fig. 19*